

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A heater resistance for heating a solid part, the resistance comprising:

a tube enclosing a single[[an]] electric wire-within-a-tube, said wire being folded over to form a plurality of strands without contacting the tube, wherein the wire is received in an electrically insulating material, such that the ~~various-plurality of strands of the wire~~ are separated from one another by said electrically insulating material; and

a ceramic sheath including a woven layer, wherein the sheath surrounds an assembly formed by the wire and the electrically insulating material and is interposed between the assembly and the tube.

2. (Previously Presented) A heater resistance according to claim 1, wherein the woven layer comprises threads of alumina (Al_2O_3).

3. (Previously Presented) A heater resistance according to claim 1, wherein the woven layer comprises threads of silica (SiO_2).

4. (Previously Presented) A heater resistance according to claim 1, wherein the woven layer comprises threads of borate (B_2O_3).

5. (Previously Presented) A heater resistance according to claim 1, further comprising a mass of electrically insulating material, interposed between the wire and the sheath.

6. (Previously Presented) A heater resistance according to claim 5, wherein the insulating mass includes a mineral.

7. (Previously Presented) A heater resistance according to claim 1, including a portion of generally elongate shape.

8. (Previously Presented) A heater resistance according to claim 1, further comprising a connector and heater segment and a connection segment adjacent to the connector, the wire

having a cross-section in the connection section of area that is greater than the area of the cross-section of the wire in the heater segment.

9. (Previously Presented) A heater resistance according to claim 1, further comprising a connector and a portion adjacent to the connector that is tapering in shape.

10. (Currently Amended) A probe to be mounted on board a vehicle for measuring an air flow parameter, including temperature, the probe comprising a body with an outside face having at least one groove and at least one heater resistance ~~according to claim 1, the heater resistance being secured to the body in the at least one groove, wherein the heater resistance comprises:~~

a tube enclosing a single electric wire, said wire being folded over to form a plurality of strands without contacting the tube, wherein the wire is received in an electrically insulating material, such that the plurality of strands are separated from one another by said electrically insulating material; and

a ceramic sheath including a woven layer, wherein the sheath surrounds an assembly formed by the wire and the electrically insulating material and is interposed between the assembly and the tube.

11. (Previously Presented) A probe according to claim 10, wherein the heater resistance is of a shape that is not plane.

12. (Cancelled)

13. (Previously Presented) A method of fabricating a probe for mounting on board a vehicle for measuring an air flow parameter including temperature, the method comprising deforming a heater resistance according to claim 1 in order to enable the heater resistance to be secured to a body of the probe.

14. (Previously Presented) A heater resistance according to claim 6, wherein the mineral includes magnesia (MgO).

15. (New) A heater resistance for heating a solid part, the resistance comprising:
an electric wire within a tube, said wire being folded over to form a plurality of strands,
wherein

the wire is received in an electrically insulating material, such that the
plurality of strands are separated from one another by said electrically insulating
material; and

each of the plurality of strands extends both in a connection segment and
in an adjacent heater segment, the wire being configured such that the cross-
section of each of the plurality of strands presents a greater area in the connection
segment than in the heater segment; and

a ceramic sheath including a woven layer, wherein the sheath surrounds an assembly
formed by the wire and the electrically insulating material and is interposed between the
assembly and the tube.